

CLAIMS

1. A method comprising the steps of:

adding a voice noise power to an aggregate voice power such that a total of said voice noise power and said aggregate voice power is substantially equal to a voice power limit;

inserting a pre-determined amount of data noise after transmission of a data burst so as to maintain power consumed by data transmission at a desired level.

2. The method of claim 1 further comprising the step of increasing said desired level by a pre-determined amount during said data transmission.

3. The method of claim 1 further comprising the step of decreasing said desired level by a pre-determined amount during said data transmission.

4. The method of claim 1 further comprising the step of increasing said voice power limit by a pre-defined amount during said data transmission.

5. The method of claim 1 further comprising the step of decreasing said voice power limit by a pre-defined amount during said data transmission.

6. The method of claim 2 wherein said pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.

7. The method of claim 3 wherein said pre-determined amount is between

2 approximately 0% and approximately 15% of said voice power limit.

8. The method of claim 4 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

9. The method of claim 5 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

10. The method of claim 1 wherein said step of adding said voice noise
power comprises a step of transmitting an orthogonally coded voice noise.

11. The method of claim 1 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

12. The method of claim 1 wherein said step of adding said voice noise
2 power comprises a step of transmitting a PN coded voice noise.

13. The method of claim 1 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of
transmitting a PN coded data noise.

14. A method comprising the steps of:
2 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to a

4 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to

6 maintain a total data transmission power at a first level;

inserting a second amount of data noise following said first amount of data

8 noise so as to reduce a total data transmission power to a second level, wherein said
second level is less than said first level by a pre-determined amount.

15. The method of claim 14 wherein said pre-determined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

16. The method of claim 14 further comprising the step of decreasing said
voice power limit by a pre-defined amount.

17. The method of claim 16 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

18. The method of claim 14 wherein said step of adding said voice noise
2 power comprises a step of transmitting an orthogonally coded voice noise.

19. The method of claim 14 wherein said step of inserting said pre-
2 determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

20. The method of claim 14 wherein said step of adding said voice noise
2 power comprises a step of transmitting a PN coded voice noise.

21. The method of claim 14 wherein said step of inserting said pre-determined amount of said data noise comprises a step of transmitting a PN coded data noise.

22. A method comprising the steps of:

adding a voice noise power to an aggregate voice power such that a total of said voice noise power and said aggregate voice power is substantially equal to a voice power limit;

inserting a pre-determined amount of data noise after transmission of a data burst so as to maintain power consumed by data transmission at a desired level;

adjusting said voice power limit by a pre-defined amount during said data transmission.

23. The method of claim 22 wherein said adjusting step comprises a step of increasing said desired level by a pre-determined amount during said data transmission.

24. The method of claim 22 wherein said adjusting step comprises a step of decreasing said desired level by a pre-determined amount during said data transmission.

25. The method of claim 23 wherein said pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.

26. The method of claim 24 wherein said pre-determined amount is between

2 approximately 0% and approximately 15% of said voice power limit.

27. The method of claim 22 wherein said step of adding said voice noise

2 power comprises a step of transmitting an orthogonally coded voice noise.

28. The method of claim 22 wherein said step of inserting said pre-

2 determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

29. The method of claim 22 wherein said step of adding said voice noise

2 power comprises a step of transmitting a PN coded voice noise.

30. The method of claim 22 wherein said step of inserting said pre-

2 determined amount of said data noise comprises a step of transmitting a PN coded
data noise.

31. A method comprising the steps of:

2 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to a
4 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to
6 maintain a total data transmission power at a first level;

adjusting said voice power limit by a first pre-determined amount during said
8 data transmission;

inserting a second amount of data noise following said first amount of data
10 noise so as to reduce a total data transmission power to a second level, wherein said
second level is less than said first level by a second pre-determined amount.

32. The method of claim 31 wherein said first pre-determined amount is
2 between approximately 0% and approximately 15% of said voice power limit.

33. The method of claim 31 wherein said second pre-determined amount is
2 between approximately 0% and approximately 15% of said voice power limit.

34. The method of claim 31 wherein said step of adding said voice noise
power comprises a step of transmitting an orthogonally coded voice noise.

35. The method of claim 31 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

36. The method of claim 31 wherein said step of adding said voice noise
2 power comprises a step of transmitting a PN coded voice noise.

37. The method of claim 31 wherein said step of inserting said pre-
2 determined amount of said data noise comprises a step of transmitting a PN coded
data noise.

38. A method comprising the steps of:

2 adjusting a voice power limit by a first pre-determined amount in response to a
change in usage;

4 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to said
6 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to
8 maintain a total data transmission power at a first level;

inserting a second amount of data noise following said first amount of data
10 noise subject to a condition relating an amount of data transmitted in said data burst to
said first amount of data noise so as to adjust said total data transmission power to a
12 second level, wherein said second level differs from said first level by a second pre-
determined amount.

39. The method of claim 38 wherein said adjusting said voice power limit
comprises increasing said voice power limit by said first pre-determined amount when
said usage increases.

40. The method of claim 38 wherein said adjusting said voice power limit
2 comprises decreasing said voice power limit by said first pre-determined amount
when said usage decreases.

41. The method of claim 38 wherein said condition relating an amount of
2 data transmitted in said data burst to said first amount of data noise is that said amount
of data transmitted in said data burst comprises at least 95% of said total data
4 transmission power, and wherein said adjusting comprises increasing said total data

transmission power by said second pre-determined amount to said second level.

42. The method of claim 38 wherein said condition relating an amount of
2 data transmitted in said data burst to said first amount of data noise is that said amount
of data transmitted in said data burst comprises no more than 50% of said total data
4 transmission power, and wherein said adjusting comprises decreasing said total data
transmission power by said second pre-determined amount to said second level.

43. The method of claim 38 wherein said first pre-determined amount is
between approximately 0% and approximately 15% of said voice power limit.

44. The method of claim 38 wherein said second pre-determined amount is
between approximately 0% and approximately 15% of said voice power limit.